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(54) RUBBER COMPOSITION CONTAINING HOLLOW SILICON

(57)Abstract:

PURPOSE: To obtain the title rubber composition improved in colorability, heat resistance, abrasion resistance, a coefficient of friction and lightness, by mixing a raw rubber with CaCO₃, sulfur, loam and hollow silicon.

CONSTITUTION: About 30wt.% raw rubber (A) is mixed with about 20wt.% CaCO₃ (B), about 10wt.% sulfur (C), about 10wt.% loam (D), and about 30wt.% hollow silicon (E) containing at least 50wt.% SiO₂ a having a sphere diameter of 1W300μm, a specific gravity of 0.5W0.75 or 1.6W2.4, a melting point of about 1,400°C, an electric resistance of 10¹⁰W10¹³Ωcm, a thermal conductivity of 0.07W0.12, a temperature conductivity coefficient of 0.000903W0.0015m²/h and a refractive index of 1.5W1.6.

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